

Software Requirements Specification

**Version1.1**

**Quốc Nhân**

**15/11/2019**

**VERSION HISTORY**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Version #** | **Implemented**  **By** | **Revision**  **Date** | **Approved**  **By** | **Approval**  **Date** | **Reason** |
| 1.0 | Anh Minh | 12/11/2019 |  |  | Create Document SRS version 1.0 |
| 1.1 | Quốc Nhân | 15/11/2019 |  |  | Update v1.1 |
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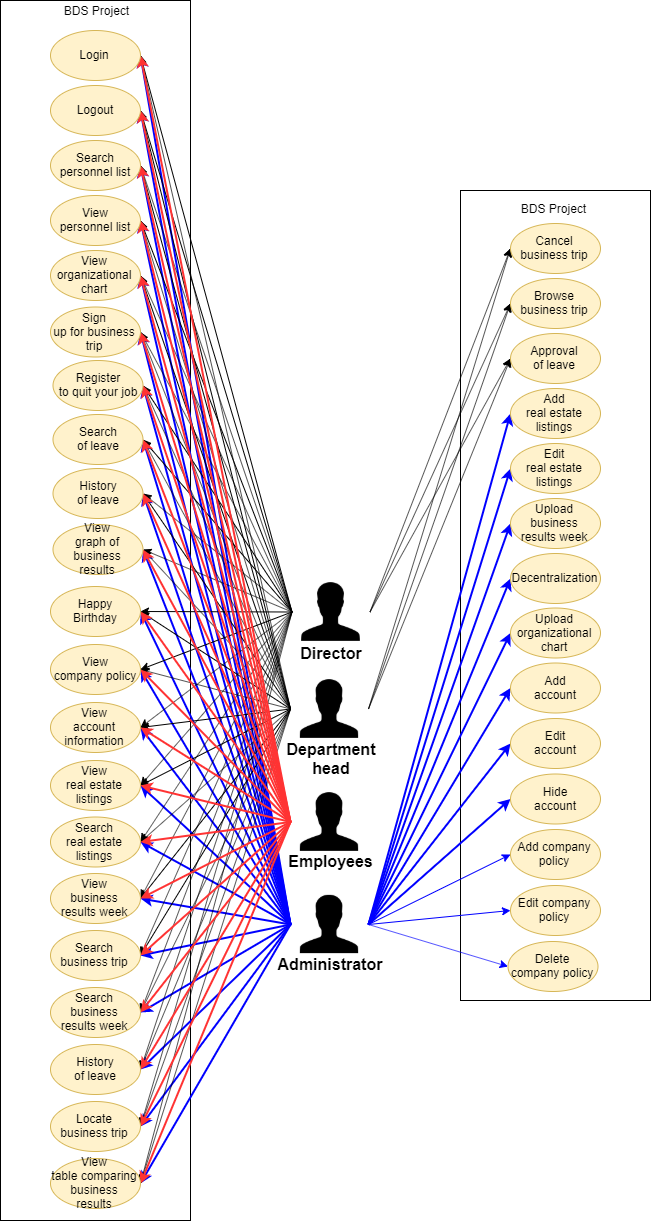
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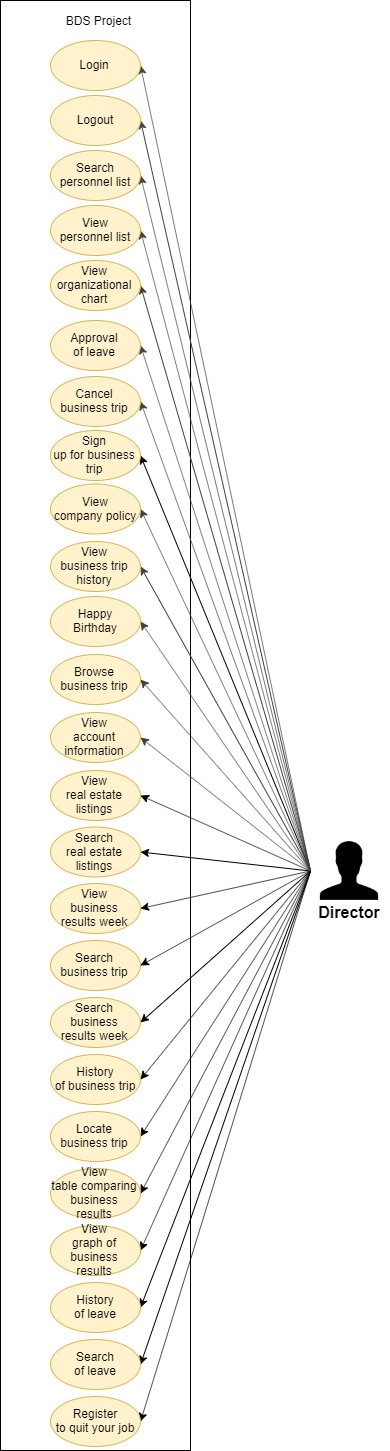
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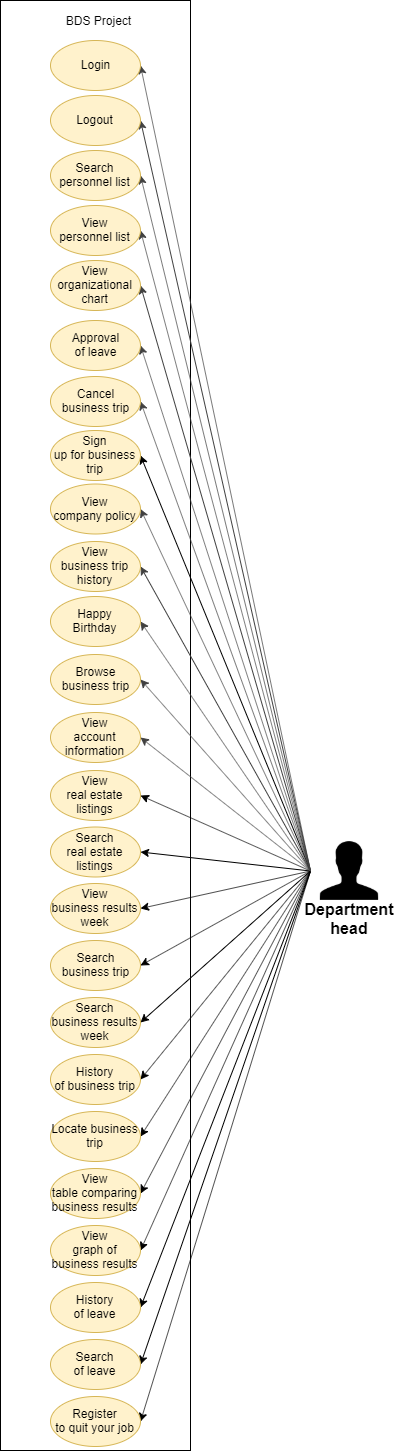
1. **USE CASE DIAGRAM**
2. **Use Case Diagram General**



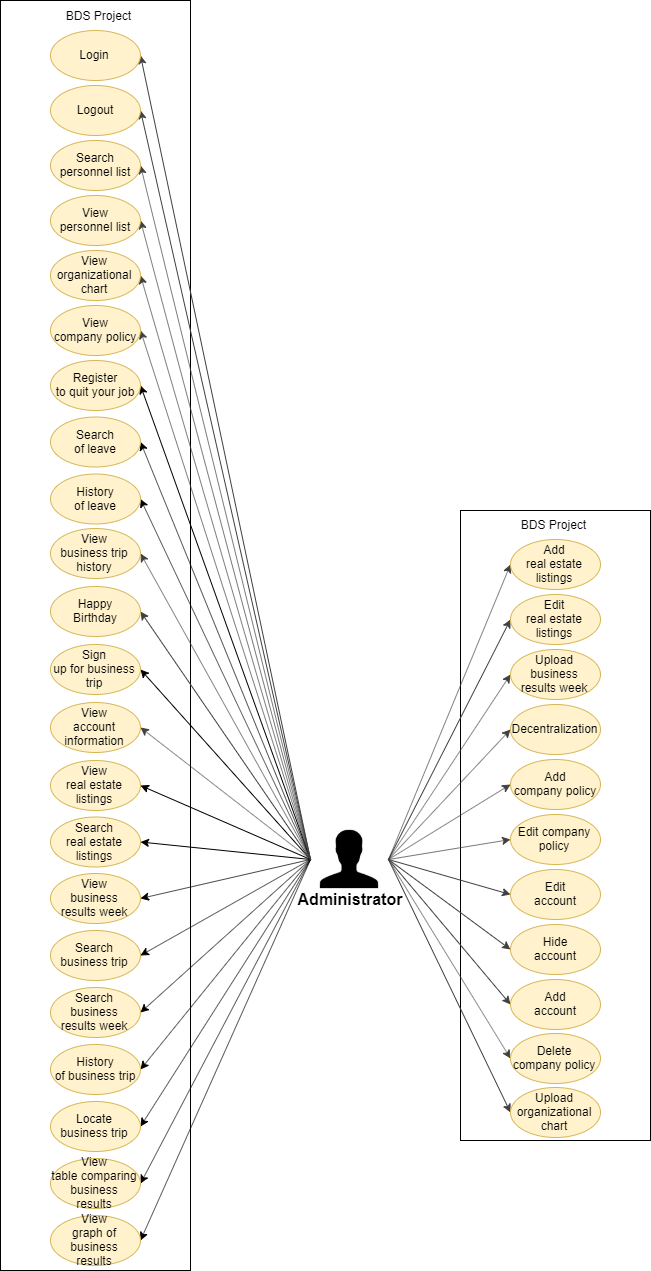
1. **Use Case Diagram Director**

****

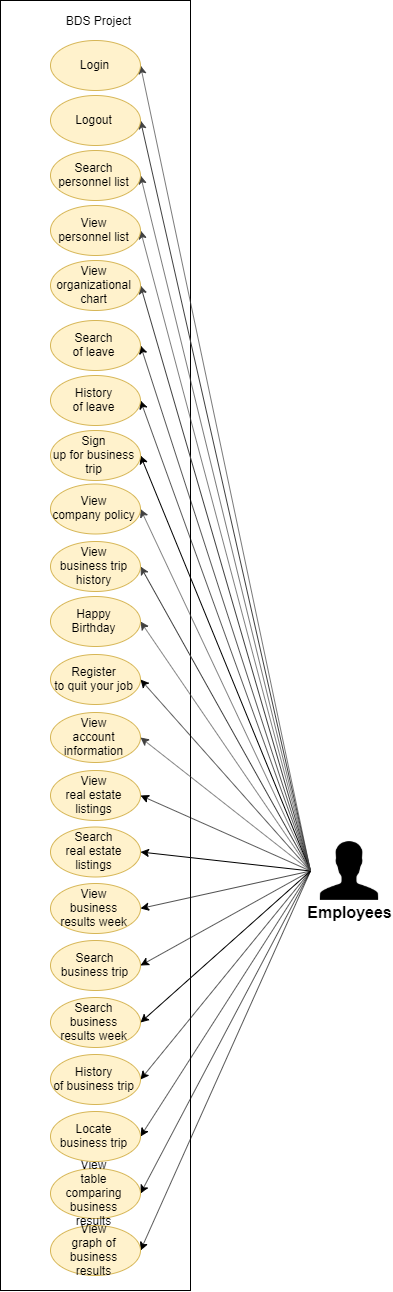
1. **Use Case Diagram Department Head**



1. **Use Case Diagram Admin**



1. **Use Case Diagram Employees**

****

1. **ENTITY TITLE**

|  |  |
| --- | --- |
| **Entity ID** | **Entity Title** |
| E01 | Director |
| E02 | Department Heads |
| E03 | Administrator |
| E04 | Employees |

1. **USE CASE LIST**

List all use cases following this template:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **#** | **UC ID** | **UC Name** | **Description** | **Actors** |
| 01 | FR.01 | Login |  |  |
| 02 | FR.02 | Logout |  |  |
| 03 | FR.03 | View account information |  |  |
| 04 | FR.04 | Search personnel list |  |  |
| 05 | FR.05 | View personnel list |  |  |
| 06 | FR.06 | Upload organizational chart |  |  |
| 07 | FR.07 | View organizational chart |  |  |
| 08 | FR.08 | Add company policy |  |  |
| 09 | FR.09 | Edit company policy |  |  |
| 10 | FR.10 | Delete company policy |  |  |
| 11 | FR.11 | View company policy |  |  |
| 12 | FR.12 | Add account |  |  |
| 13 | FR.13 | Hide account |  |  |
| 14 | FR.14 | Edit account |  |  |
| 15 | FR.15 | Decentralization |  |  |
| 16 | FR.16 | View real estate listings |  |  |
| 17 | FR.17 | Search real estate listings |  |  |
| 18 | FR.18 | Add real estate listings |  |  |
| 19 | FR.19 | Edit real estate listings |  |  |
| 20 | FR.20 | View business results week |  |  |
| 21 | FR.21 | Upload business results week |  |  |
| 22 | FR.22 | Search business results week |  |  |
| 23 | FR.23 | View table comparing business results |  |  |
| 24 | FR.24 | View graph of business results |  |  |
| 25 | FR.25 | Sign up for business trip |  |  |
| 26 | FR.26 | Browse business trip |  |  |
| 27 | FR.27 | Cancel business trip |  |  |
| 28 | FR.28 | Locate business trip |  |  |
| 29 | FR.29 | View business trip history |  |  |
| 30 | FR.30 | Search business trip |  |  |
| 31 | FR.31 | Register to quit your job |  |  |
| 32 | FR.32 | History of leave |  |  |
| 33 | FR.33 | Approval of leave |  |  |
| 34 | FR.34 | Search of leave |  |  |
| 35 | FR.35 | Happy Birthday |  |  |

1. **USE CASE DESCRIPTION**

**Account management**

1. **Login**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC01 | | |
| **Use Case: Name:** | Login | | |
| **Created By:** |  | Update By: |  |
| **Date Created:** |  | Date Updated: | 12/11/2019 |
| **Actors:** |  | | |
| **Description:** |  | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

1. **Logout**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC01 | | |
| **Use Case: Name:** | Login | | |
| **Created By:** |  | Update By: |  |
| **Date Created:** |  | Date Updated: | 12/11/2019 |
| **Actors:** |  | | |
| **Description:** |  | | |
| **Trigger:** |  | | |
| **Pre-conditions:** |  | | |
| **Post-conditions:** |  | | |
| **Normal Flow:** |  | | |
| **Alternative Flows:** |  | | |
| **Exceptions:** |  | | |
| **Business Rules** |  | | |

**3. View account information**

**4. Search personnel list**

**5. View personnel list**

**6. Upload organizational chart**

**7. View organizational chart**

**8. Add company policy**

**9. Edit company policy**

**10. Delete company policy**

**11. View company policy**

**12. Add account**

**13. Hide account**

**14. Edit account**

**15. Decentralization**

**Real estate project management**

**16. View real estate listings**

**17. Search real estate listings**

**18. Add real estate listings**

**19. Edit real estate listings**

**Statistical management, reporting**

**20. View business results week**

**21. Upload business results week**

**22. Search business results week**

**23. View table comparing business results**

**24. View graph of business results**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC24 | | |
| **Use Case: Name:** | View graph of business results | | |
| **Created By:** | Nhan Pham | Update By: |  |
| **Date Created:** | 17/11/2019 | Date Updated: |  |
| **Actors:** | E01, E02, E03 & E04 | | |
| **Description:** | E01, E02, E03 & E04 view graph of business results | | |
| **Trigger:** | The E01, E02, E03 & E04 opens the interface ‘Đồ thị kết quả kinh doanh’ | | |
| **Pre-conditions:** | The E01, E02, E03 & E04 has logged in to the system with the E01, E02, E03 & E04 account | | |
| **Post-conditions:** | Success:   * E01, E02, E03 & E04 can view ‘Đồ thị kết quả kinh doanh’ | | |
| **Normal Flow:** | 1. E01, E02, E03 & E04 accept to Mobile app 2. E01, E02, E03 & E04 choose feature ‘thống kê – báo cáo’ on ‘Đồ thị kết quả kinh doanh’ page | | |
| **Alternative Flows:** | N/A | | |
| **Exceptions:** | N/A | | |
| **Business Rules** | N/A | | |

**Business trip manager**

**25. Sign up for business trip**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC25 | | |
| **Use Case: Name:** | Sign up for business trip | | |
| **Created By:** | Nhan Pham | Update By: |  |
| **Date Created:** | 17/11/2019 | Date Updated: |  |
| **Actors:** | E01, E02, E03 & E04 | | |
| **Description:** | E01, E02, E03 & E04 sign up for business trip | | |
| **Trigger:** | The E01, E02, E03 & E04 opens the interface ‘đăng ký chuyến đi công tác’ | | |
| **Pre-conditions:** | The E01, E02, E03 & E04 has logged in to the system with the E01, E02, E03 & E04 account | | |
| **Post-conditions:** | Success:   * E01, E02, E03 & E04 can ‘đăng ký chuyến đi công tác’ | | |
| **Normal Flow:** | 1. E01, E02, E03 & E04 accept to Mobile app 2. E01, E02, E03 & E04 choose feature ‘đăng ký chuyến đi công tác’ 3. E01, E02, E03 & E04 fill out all the information fields 4. E01, E02, E03 & E04 press the send button | | |
| **Alternative Flows:** | N/A | | |
| **Exceptions:** | N/A | | |
| **Business Rules** | N/A | | |

**26. Browse business trip**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC26 | | |
| **Use Case: Name:** | Browse business trip | | |
| **Created By:** | Nhan Pham | Update By: |  |
| **Date Created:** | 18/11/2019 | Date Updated: |  |
| **Actors:** | E01 & E02 | | |
| **Description:** | E01 & E02 browse business trip | | |
| **Trigger:** | The E01 & E02 opens the interface ‘duyệt phiếu chuyến đi công tác’ | | |
| **Pre-conditions:** | The E01 & E02 has logged in to the system with the E01 & E02 account | | |
| **Post-conditions:** | Success:   * E01 & E02 can ‘duyệt phiếu chuyến đi công tác’ | | |
| **Normal Flow:** | 1. E01, E02, E03 & E04 accept to Mobile app 2. E01 & E02 choose feature ‘duyệt phiếu chuyến đi công tác’ 3. E01 & E02 press the button ‘duyệt’ | | |
| **Alternative Flows:** | N/A | | |
| **Exceptions:** | N/A | | |
| **Business Rules** | N/A | | |

**27. Cancel business trip**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC27 | | |
| **Use Case: Name:** | Cancel business trip | | |
| **Created By:** | Nhan Pham | Update By: |  |
| **Date Created:** | 18/11/2019 | Date Updated: |  |
| **Actors:** | E01 & E02 | | |
| **Description:** | E01 & E02 cancel business trip | | |
| **Trigger:** | The E01 & E02 opens the interface ‘hủy chuyến đi công tác’ | | |
| **Pre-conditions:** | The E01 & E02 has logged in to the system with the E01 & E02 account | | |
| **Post-conditions:** | Success:   * E01 & E02 can ‘hủy chuyến đi công tác’ | | |
| **Normal Flow:** | 1. E01, E02, E03 & E04 accept to Mobile app 2. E01 & E02 choose feature ‘hủy chuyến đi công tác’ 3. E01 & E02 enter the information fields to search | | |
| **Alternative Flows:** | N/A | | |
| **Exceptions:** | N/A | | |
| **Business Rules** | N/A | | |

**28. Locate business trip**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC28 | | |
| **Use Case: Name:** | Locate business trip | | |
| **Created By:** | Nhan Pham | Update By: |  |
| **Date Created:** | 18/11/2019 | Date Updated: |  |
| **Actors:** | E01, E02, E03 & E04 | | |
| **Description:** | E01, E02, E03 & E04 locate business trip | | |
| **Trigger:** | The E01, E02, E03 & E04 opens the interface ‘định vị chuyến công tác’ | | |
| **Pre-conditions:** | The E01, E02, E03 & E04 has logged in to the system with the E01, E02, E03 & E04 account | | |
| **Post-conditions:** | Success:   * E01, E02, E03 & E04 accept to Mobile app * E01, E02, E03 & E04 can ‘định vị chuyến công tác’ | | |
| **Normal Flow:** | 1. E01, E02, E03 & E04 choose feature ‘định vị chuyến công tác’ on đăng ký chuyến công tác’ page | | |
| **Alternative Flows:** | N/A | | |
| **Exceptions:** | N/A | | |
| **Business Rules** | N/A | | |

**29. View business trip history**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC29 | | |
| **Use Case: Name:** | View business trip history | | |
| **Created By:** | Nhan Pham | Update By: |  |
| **Date Created:** | 17/11/2019 | Date Updated: |  |
| **Actors:** | E01, E02, E03 & E04 | | |
| **Description:** | E01, E02, E03 & E04 view business trip history | | |
| **Trigger:** | The E01, E02, E03 & E04 opens the interface ‘lịch sử chuyến công tác’ | | |
| **Pre-conditions:** | The E01, E02, E03 & E04 has logged in to the system with the E01, E02, E03 & E04 account | | |
| **Post-conditions:** | Success:   * E01, E02, E03 & E04 can view ‘lịch sử chuyến công tác’ | | |
| **Normal Flow:** | 1. E01, E02, E03 & E04 accept to Mobile app 2. E01, E02, E03 & E04 choose feature ‘chuyến công tác’ on ‘lịch sử chuyến công tác’ page | | |
| **Alternative Flows:** | N/A | | |
| **Exceptions:** | N/A | | |
| **Business Rules** | N/A | | |

**30. Search business trip**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC30 | | |
| **Use Case: Name:** | Search business trip | | |
| **Created By:** | Nhan Pham | Update By: |  |
| **Date Created:** | 17/11/2019 | Date Updated: |  |
| **Actors:** | E01, E02, E03 & E04 | | |
| **Description:** | E01, E02, E03 & E04 search business trip | | |
| **Trigger:** | The E01, E02, E03 & E04 opens the interface ‘tìm kiếm chuyến đi công tác’ | | |
| **Pre-conditions:** | The E01, E02, E03 & E04 has logged in to the system with the E01, E02, E03 & E04 account | | |
| **Post-conditions:** | Success:   * E01, E02, E03 & E04 can ‘tìm kiếm chuyến đi công tác’   Failure:   * E01, E02, E03 & E04 can’t ‘tìm kiếm chuyến đi công tác’ | | |
| **Normal Flow:** | 1. E01, E02, E03 & E04 accept to Mobile app 2. E01, E02, E03 & E04 choose feature ‘tìm kiếm chuyến đi công tác’ 3. E01, E02, E03 & E04 enter the information fields to search | | |
| **Alternative Flows:** | N/A | | |
| **Exceptions:** | N/A | | |
| **Business Rules** | N/A | | |

**Management quit**

**31. Register to quit your job**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC31 | | |
| **Use Case: Name:** | Register to quit your job | | |
| **Created By:** | Nhan Pham | Update By: |  |
| **Date Created:** | 17/11/2019 | Date Updated: |  |
| **Actors:** | E01, E02, E03 & E04 | | |
| **Description:** | E01, E02, E03 & E04 register to quit your job | | |
| **Trigger:** | The E01, E02, E03 & E04 opens the interface ‘đăng ký nghỉ việc’ | | |
| **Pre-conditions:** | The E01, E02, E03 & E04 has logged in to the system with the E01, E02, E03 & E04 account | | |
| **Post-conditions:** | Success:   * E01, E02, E03 & E04 can ‘đăng ký nghỉ việc’ | | |
| **Normal Flow:** | 1. E01, E02, E03 & E04 accept to Mobile app 2. E01, E02, E03 & E04 choose feature ‘đăng ký nghỉ việc’ 3. E01, E02, E03 & E04 fill out all the information fields 4. E01, E02, E03 & E04 press the send button | | |
| **Alternative Flows:** | N/A | | |
| **Exceptions:** | N/A | | |
| **Business Rules** | N/A | | |

**32. View history of leave**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC32 | | |
| **Use Case: Name:** | View history of leave | | |
| **Created By:** | Nhan Pham | Update By: |  |
| **Date Created:** | 17/11/2019 | Date Updated: |  |
| **Actors:** | E01, E02, E03 & E04 | | |
| **Description:** | E01, E02, E03 & E04 view history of leave | | |
| **Trigger:** | The E01, E02, E03 & E04 opens the interface ‘lịch sử nghỉ việc’ | | |
| **Pre-conditions:** | The E01, E02, E03 & E04 has logged in to the system with the E01, E02, E03 & E04 account | | |
| **Post-conditions:** | Success:   * E01, E02, E03 & E04 can view ‘lịch sử nghỉ việc’ | | |
| **Normal Flow:** | 1. E01, E02, E03 & E04 accept to Mobile app 2. E01, E02, E03 & E04 choose feature ‘nghỉ việc’ on ‘lịch sử nghỉ việc’ page | | |
| **Alternative Flows:** | N/A | | |
| **Exceptions:** | N/A | | |
| **Business Rules** | N/A | | |

**33. Approval of leave**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC33 | | |
| **Use Case: Name:** | Approval of leave | | |
| **Created By:** | Nhan Pham | Update By: |  |
| **Date Created:** | 18/11/2019 | Date Updated: |  |
| **Actors:** | E01 & E02 | | |
| **Description:** | E01 & E02 approval of leave | | |
| **Trigger:** | The E01 & E02 opens the interface ‘duyệt đơn nghỉ việc’ | | |
| **Pre-conditions:** | The E01 & E02 has logged in to the system with the E01 & E02 account | | |
| **Post-conditions:** | Success:   * E01 & E02 can ‘duyệt đơn nghỉ việc’ | | |
| **Normal Flow:** | 1. E01, E02, E03 & E04 accept to Mobile app 2. E01 & E02 choose feature ‘duyệt đơn nghỉ việc’ 3. E01 & E02 press the button ‘duyệt’ | | |
| **Alternative Flows:** | N/A | | |
| **Exceptions:** | N/A | | |
| **Business Rules** | N/A | | |

**34. Search of leave**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC34 | | |
| **Use Case: Name:** | Search of leave | | |
| **Created By:** | Nhan Pham | Created By: |  |
| **Date Created:** | 17/11/2019 | Date Created: | 12/11/2019 |
| **Actors:** | E01, E02, E03 & E04 | | |
| **Description:** | E01, E02, E03 & E04 search of leave | | |
| **Trigger:** | The E01, E02, E03 & E04 opens the interface ‘tìm kiếm đơn xin nghỉ việc’ | | |
| **Pre-conditions:** | The E01, E02, E03 & E04 has logged in to the system with the E01, E02, E03 & E04 account | | |
| **Post-conditions:** | Success:   * E01, E02, E03 & E04 can ‘tìm kiếm đơn xin nghỉ việc’   Failure:   * E01, E02, E03 & E04 can’t ‘tìm kiếm đơn xin nghỉ việc’ | | |
| **Normal Flow:** | 1. E01, E02, E03 & E04 accept to Mobile app 2. E01, E02, E03 & E04 choose feature ‘tìm kiếm đơn xin nghỉ việc’ 3. E01, E02, E03 & E04 enter the information fields to search | | |
| **Alternative Flows:** | N/A | | |
| **Exceptions:** | N/A | | |
| **Business Rules** | N/A | | |

**Other functions**

**35. Happy Birthday**

|  |  |  |  |
| --- | --- | --- | --- |
| **Use Case ID:** | UC35 | | |
| **Use Case: Name:** | Happy birthday | | |
| **Created By:** | Nhan Pham | Update By: |  |
| **Date Created:** | 18/11/2019 | Date Updated: |  |
| **Actors:** | E01, E02, E03 & E04 | | |
| **Description:** | E01, E02, E03 & E04 received notification | | |
| **Trigger:** | The E01, E02, E03 & E04 opens the interface ‘trang chủ’ | | |
| **Pre-conditions:** | The E01, E02, E03 & E04 has logged in to the system with the E01, E02, E03 & E04 account | | |
| **Post-conditions:** | Success:   * E01, E02, E03 & E04 can receive ‘chúc mừng sinh nhật | | |
| **Normal Flow:** | 1. E01, E02, E03 & E04 accept to Mobile app 2. E01, E02, E03 & E04 received notification ‘chúc mừng sinh nhật’ on ‘trang chủ’ page | | |
| **Alternative Flows:** | N/A | | |
| **Exceptions:** | N/A | | |
| **Business Rules** | N/A | | |